NetVanta 1524ST

Managed Layer 2 Gigabit Ethernet Switch

Product Features

- 24-port managed Gigabit Ethernet switch
- 20-10/100/1000Base-T and four combo 10/100/1000Base-T/SFP ports
- Non-blocking 48 Gbps switching capacity
- 802.1Q tagged and port-based Virtual LANs (VLANs)
- Support for up to 255 active VLANs
- Single IP address management for up to 16 units
- Provides Quality of Service (QoS) to 802.1p marked traffic
- Spanning Tree and Rapid Spanning Tree Support
- MAC-based port security
- Broadcast Storm Control
- Port Mirroring
- Link Aggregation, GVRP, and LLDP
- Web-based Graphical User Interface (GUI)
- Familiar Command Line Interface (CLI)
- SSL and SSH management encryption
- Free access to ADTRAN's n-Command NetVanta Internetworking Essentials Management Software
- Free firmware updates
- Industry-leading support, service, and warranty

The NetVanta 1524ST is the first in a series of Gigabit Ethernet switches from ADTRAN. Offered at a price point less than half the cost of other 24-port Layer 2 Gigabit switches, this product is setting a new standard for affordable higher bandwidth and Gigabit-to-the-desktop deployments. Ideal for new installations or network upgrades, these switches can provide higher bandwidth for corporate and branch office Local Area Networks (LANs) to support today's most bandwidth intensive applications.

Hardware

The NetVanta 1524ST rackmount switch provides 24 Gigabit Ethernet ports, consisting of 20 fixed 10/100/1000Base-T Ethernet ports and four combo 10/100/1000Base-T/Small Form-factor Pluggable (SFP) ports. The 10/100/1000Base-T ports provide auto-rate, auto-duplexing, and auto-MDI/MDI-X sensing. The SFP slots are available to accommodate optical interfaces using industry-standard SFP modules. The 1524ST can support up to 16 units stacked together and is easily managed with a single IP address for the entire stack.

Standards Protocols

Based on the ADTRAN Operating System (AOS), these devices offer support for Link Aggregation (802.3ad), Port Mirroring, port-based switching features including Storm Control, Spanning Tree (802.1D) and Rapid Spanning Tree (802.1w) for faster network convergence, link redundancy, and recovery from topology changes. Link Layer Discovery Protocol (LLDP) auto-discovers neighboring Ethernet devices, simplifying integration into multi-vendor environments.

VLANs

All NetVanta switches support 802.1Q trunking and up to 255 port-based VLANs to allow network managers to separate broadcast domains for efficient network performance and traffic control. To help aid configuration in larger networks, Generic VLAN Registration Protocol (GVRP) is also available.

Security

Rest assured, with the NetVanta 1524ST your network is protected. These products offer a variety of data security features including MAC-based port security, multilevel user passwords, Secure Shell (SSH) and Secure Socket Layer (SSL) for encrypted user login, and Access Authenthication and Authorization (AAA) for authentication with RADIUS, RSA SecurID, and TACACS+.

QoS

NetVanta switches also support QoS to ensure network managers have the ability to prioritize mission-critical traffic and control network congestion. The NetVanta 1524ST offers 802.1p Class of Service (CoS). Each switch supports frame tagging as well as enforcement of tagged traffic received from trusted sources. Two egress queues (per port) are available for assigning traffic priorities using Strict Priority Queuing.

Administration

The AOS offers both a CLI that mimics the widely deployed, industry *de facto* standard and an intuitive Web-based GUI with step-by-step configuration wizards. For centralized enterprise-wide management scheme, ADTRAN offers n-Command, an intuitive, scalable software suite for managing firmware revisions, push firmware upgrades and configuration changes, backup and restore configurations, and manage security policies and Access Control Lists (ACLs).

NetVanta 1000 Series of Ethernet switches are easily coupled with other ADTRAN internetworking products including switch-routers, access routers, and multiservice access routers. All these solutions are backed by ADTRAN's industry-leading support and services.

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ADTRAN is an ISO 9001, ISD 14001, and a TL 9000 certified supplier.

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Managed Layer 2 Gigabit Ethernet Switch

Product Specifications

Physical Interface

24 Gigabit Ethernet Ports
- 10/100/1000Base-T
- RJ-45
- Auto-rate/duplex/MDI/MDI-X

Four SFP Ports
- Industry-standard SFP interface
- SFP slots for optical connectivity

Console Port
- DB-9, RS-232
- 10/100Base-T management port

Performance
- Non-blocking
- **Switching Capacity:** 48 Gbps
- **Maximum Forwarding Rate (based on 64-byte packets):** 35.7 Mbps
- 8,000 MAC Addresses

Diagnostics
- Port Mirroring
- LLDP (802.1AB)
- Ping
- Traceroute

Front Panel Status LEDs
- Power
- Link
- Stacking

Port Statistics
- TX/RX Frames
- Collisions
- Errors

Spanning Tree Support
- 802.1D Spanning Tree
- 802.1w Rapid Spanning Tree

Stacking
- Up to 16 switches/stack
- Single IP Address for entire stack
- Utilizes built-in 1000Base-T or SFP interfaces
- Compatible with NetVanta 1000 Series Switches

Link Aggregation
- 802.3ad Link Aggregation
- Support for 12 trunk groups
- Trunk groups consist of up to 12 ports

Quality of Service
- 802.1p and DiffServ
- Two output queues per egress port
- Strict Priority Queuing

Storm Control
- Broadcast and Multicast

VLAN Support
- Port-based VLANs
- 802.1Q tagged trunked VLANs
- Support for up to 255 active VLANs
- Generic VLAN Registration Protocol (GVRP)

Administration
- Familiar Command Line Interface (CLI)
- Web-based GUI
- n-Command support
- SNMP v3
- SYSLOG logging
- Email alerts (SMTP)
- Policy Statistics
- SNTP Client/Server

Security

Secure Management
- Multi-level access control
- TACACS+
- RADIUS AAA
- SSH CLI and SSL GUI

Network Access Control
- Port Authentication (802.1X)
- MAC-based port security
- Private VLAN Edge

Environment
- **Operating Temperature:** 0° to 50 °C (32° to 122 °F)
- **Storage Temperature:** -20° to 70 °C (-4° to 158 °F)
- **Relative Humidity:** Up to 95%, non-condensing

Physical
- **Chassis:** 1U, 19" rackmountable metal enclosure
- **Dimensions:** 4.4cm H, 44cm W, 19.8cm D
- **Weight:** 3.18 kg
- **AC Power:** 100–250 VAC, 50/60 Hz
- **Power:** 36 watts (122 BTUs/hour)

Agency Approvals
- FCC Part 15 Class A
- UL 1950/CSA
- CE Mark
- C-tick
- RoHS

Ordering Information

Equipment	Part #
NetVanta 1524ST	4200560E2#IN
Connectors	
NetVanta 1000Base-SX SFP (LC Connectors)	1200480E1
NetVanta 1000Base-LX SFP (LC Connectors)	1200481E1

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